

South Carolina Electric & Gas
VCS1 - Killian 230 kV Line
Blythewood - Killian Segment
Criteria Weights

	SENSITIVITY TO TRANSMISSION LINE CONSTRUCTION				
	LOW	MODERATE / LOW	MODERATE	MODERATE / HIGH	HIGH
CULTURAL RESOURCES					
Archaeological Site - Eligibility for the NRHP* Undetermined					
Archaeological Site - Eligibility for the NRHP Undetermined - 50' Buffer					
Archaeological Site - Eligible for the NRHP					
Archaeological Site - Eligible for the NRHP - 50' Buffer					
Archaeological Site - Ineligible for the NRHP					
Archaeological Site - Ineligible for the NRHP - 50' Buffer					
Archaeological Site - Potentially Eligible for the NRHP					
Archaeological Site - Potentially Eligible for the NRHP - 50' Buffer					
Historic Site - Ineligible for the NRHP					
Historic Site - Ineligible for the NRHP - 100' Buffer					
Historic Site - Ineligible for the NRHP - 500' Buffer					
Historic Site - Ineligible for the NRHP - 1000' Buffer					
Historic Site - Eligible for the NRHP - 1000' Buffer					
Historic Site - Potentially Eligible for the NRHP					
Historic Site - Potentially Eligible for the NRHP - 100' Buffer					
Historic Site - Potentially Eligible for the NRHP - 500' Buffer					
Historic Site - Potentially Eligible for the NRHP - 1000' Buffer					
No Recorded Cultural Resource Sites					
*National Register of Historic Places					
HYDROGRAPHY					
Stream					
Lake / Pond					
50' Buffer					
100' Buffer					
Upland					
WETLANDS					
Palustrine Emergent					
Palustrine Forested					
Palustrine Scrub / Shrub					
50' Buffer					
100' Buffer					
Upland					
LAND COVER					
Bottomland / Flood Plain Forest					
Closed Canopy Evergreen Forest / Woodland					
Dry Deciduous Forest / Woodland					
Dry Mixed Forest / Woodland					
Dry Scrub / Shrub Thicket					
Fresh Water					
Grassland / Pasture					
Marsh / Emergent Wetland					
Mesic Deciduous Forest / Woodland					
Mesic Mixed Forest / Woodland					
Needle-Leaved Evergreen Mixed Forest / Woodland					
Open Canopy / Recently Cleared Forest					
Swamp					
Urban Development					
Urban Residential					
Wet Scrub / Shrub Thicket					
PRIME AND IMPORTANT FARMLANDS					
Farmland Of Statewide Importance					
Prime Farmland					
Prime Farmland If Drained And Protected From Flooding Or Not Frequently Flooded					
Not Prime Or Important Farmland					
FEMA FLOOD ZONES					
Zone A - 100-Year Flood Plain (No Base Flood Elevation Determined)					
Zone AE - 100-Year Flood Plain (Base Flood Elevation Determined)					
Zone AE - Floodway					
Zone X - Areas Outside of 500-Year Flood Plain					
PUBLIC VISIBILITY					
Visible (0 to 1/8 Mile of a Public Road)					
Visible (1/8 to 1/4 Mile of a Public Road)					
Visible (1/4 to 1/2 Mile of a Public Road)					
Not Visible from a Public Road					
FUTURE LAND USE					
Richland County - Conservation					
Richland County - Low Density Suburban					
Richland County - Suburban					
Richland County - Urban Village					
Railroad Right-of-Way					
Road Right-of-Way					

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	LOW	MODERATE / LOW	MODERATE	MODERATE / HIGH	HIGH
COMMUNITY AMENITIES AND PUBLIC INFRASTRUCTURE					
Cemetery					
Church					
Communication Tower					
Community Center					
Day Care					
Fire / Rescue					
Government					
Railroad Right-of-Way					
Recreation					
Road Right-of-Way					
School					
Utility					
Utility - Gas Line Right-of-Way					
Utility - SCE&G Substation					
Utility - SCE&G Transmission Line Right-of-Way					
Utility - Santee Cooper Transmission Line Right-of-Way					
Utility - Water					
Utility - Water Tower					
No Identified Community Amenities or Public Infrastructure					
OCCUPIED BUILDINGS					
Church Building (50' Buffer)					
Church Building (100' Buffer)					
Church Building (500' Buffer)					
Church Building (1000' Buffer)					
Commercial Building (50' Buffer or Footprint)					
Commercial Building (100' Buffer)					
Commercial Building (200' Buffer)					
Community Building (50' Buffer)					
Community Building (100' Buffer)					
Community Building (500' Buffer)					
Day Care (50' Buffer)					
Day Care (100' Buffer)					
Day Care (500' Buffer)					
Day Care (1000' Buffer)					
Fire / EMS Building (50' Buffer)					
Fire / EMS Building (100' Buffer)					
Fire / EMS Building (200' Buffer)					
Government Building (50' Buffer)					
Government Building (75' Buffer)					
Government Building (500' Buffer)					
Light Industrial Building (Footprint)					
Light Industrial Building (100' Buffer)					
Light Industrial Building (200' Buffer)					
Multi-Family Residence (50' Buffer)					
Multi-Family Residence (100' Buffer)					
Multi-Family Residence (500' Buffer)					
Multi-Family Residence (1000' Buffer)					
School (Footprint)					
School Amenities					
School - 500' Buffer Beyond All Amenities					
School - 1000' Buffer Beyond All Amenities					
Single-Family Residence (50' Buffer)					
Single-Family Residence (100' Buffer)					
Single-Family Residence (500' Buffer)					
Single-Family Residence (1000' Buffer)					
No Occupied Buildings					
ZONING					
Richland County - Light Industrial District					
Richland County - Heavy Industrial District					
Richland County - General Commercial District					
Richland County - Neighborhood Commercial District					
Richland County - Office and Institutional District					
Richland County - Planned Development District					
Richland County - Residential, Multi-Family, High Density District					
Richland County - Manufactured Home District					
Richland County - Residential, Single-Family, Estate District					
Richland County - Residential, Single-Family, Low Density District					
Richland County - Residential, Single-Family, Medium Density District					
Richland County - Residential, Single-Family, High Density District					
Richland County - Rural District					
Town of Blythewood - 1- and 2-Family Residential District					
Town of Blythewood - General Commercial District					
Town of Blythewood - Light Industrial Research Park District					
Town of Blythewood - Low Density Single-Family Residential District					
Town of Blythewood - Development District					
Town of Blythewood - Planned Development District					
Town of Blythewood - Rural District					
Railroad Right-of-Way					
Road Right-of-Way					
Zoning Unknown					

Transmission Line Siting Criteria Constraint Weighting Definitions

Sensitivity to Transmission Line Construction

HIGH

These areas (1) contain resources or land uses protected by legislation or administrative policy, (2) contain sensitive resources that would be significantly affected by the addition of a transmission line, or (3) present a severe physical constraint to transmission line construction and operation. Because it would be extremely difficult to locate a transmission line in these areas, they are often avoided when developing alternate transmission line routes.

MODERATE- HIGH

These areas typically contain natural resources with moderate-high sensitivity to transmission line construction or existing land uses that are significantly sensitive to transmission line construction due to the land use type, historic importance, density, etc. Moderate-high constraint areas may also contain physical characteristics that would make transmission line construction and/or operation through them extremely difficult.

MODERATE

These are areas with natural resources or existing land uses that are moderately sensitive to transmission line construction. Moderate constraint areas may contain some physical constraint to transmission line construction but none that cannot be mitigated through routine construction practices.

MODERATE- LOW

These areas contain natural resources and existing land uses that have minor sensitivity to transmission line construction. Physical constraint to transmission line construction in low-moderate constraint areas is usually very minor.

LOW

These areas do not contain natural resources or existing land uses that are sensitive to transmission line construction, nor do they contain physical constraints that pose measurable challenges to transmission line construction. Low constraint areas often include existing utility rights-of-way.

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Siting Study Route Evaluation Summary Sheet

Alternate Route	Alternate Route Length (Miles)	Acres of Right-of-Way	Cultural Resource Factors	Natural Resource Factors	Land Cover Factors	Property Ownership Factors	Land Use Factors	Occupied Buildings Factors	Visibility Factors (Public)	Visibility Factors (Residential)	Water Quality Factors	Total Normalized Route Evaluation Score	Route's Siting Study Rank
A	8.8	127.6	0.00	0.00	10.00	9.72	3.15	2.21	3.92	1.05	10.00	40.05	6
B	8.9	128.5	0.00	0.00	9.26	10.00	4.27	2.60	5.90	3.28	8.26	43.57	13
C	8.8	126.3	0.00	0.00	8.19	9.26	4.31	2.82	7.08	3.22	6.81	41.69	10
D	8.2	117.9	4.00	0.00	8.95	9.03	3.46	1.86	4.01	1.74	8.39	41.44	9
E	8.0	114.5	4.00	0.00	7.99	8.29	4.57	2.08	5.00	1.69	6.94	40.56	7
F	7.8	112.1	4.00	0.00	8.15	8.45	8.13	2.06	4.15	1.72	7.55	44.21	14
G	7.6	108.7	4.00	0.00	7.21	7.70	9.24	2.27	5.14	1.67	6.10	43.33	12
H	5.7	81.7	0.00	0.00	4.33	5.96	7.44	1.88	8.25	3.91	5.27	37.04	3
I	6.3	90.6	0.00	0.00	4.74	5.98	10.00	3.20	9.53	5.40	6.21	45.06	16
J	6.4	91.6	0.00	0.00	4.43	5.11	4.84	5.00	8.07	5.52	5.90	38.87	5
K	5.8	82.6	0.00	0.00	3.89	4.68	4.67	4.65	7.50	3.66	4.64	33.69	1
L	5.2	73.9	10.00	0.00	3.07	3.33	3.01	7.29	6.46	8.91	2.86	44.93	15
M	6.5	92.6	0.00	0.00	4.72	6.01	10.00	4.19	10.00	5.83	6.19	46.94	18
N	6.5	93.5	0.00	0.00	4.41	5.12	4.84	5.98	8.54	5.95	5.83	40.67	8
O	5.9	84.6	0.00	0.00	3.86	4.69	4.67	5.64	7.97	4.09	4.62	35.54	2
P	5.3	75.8	10.00	0.00	3.06	3.34	3.01	8.27	6.93	9.41	2.79	46.81	17
Q	6.4	92.3	0.00	0.00	4.39	4.72	4.84	7.69	8.82	6.60	5.83	42.89	11
R	5.8	83.3	0.00	0.00	3.84	4.29	4.67	7.34	8.25	4.74	4.62	37.75	4
S	5.2	74.5	10.00	0.00	3.04	2.94	3.01	10.00	7.22	10.00	2.79	49.00	19

Legend



Scored in Highest 1/3 of Score Range
Scored in Middle 1/3 of Score Range
Scored in Lowest 1/3 of Score Range

Table 3